

Recombinant Human HLA-DMB Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HLA-DMB-6533H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HLA MS Standard C13 and N15-labeled recombinant protein (NP_002109) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	HLA-DMB belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DMA) and a beta (DMB) chain, both anchored in the membrane. It is located in intracellular vesicles. DM plays a central role in the peptide loading of MHC class II molecules by helping to release the CLIP (class II-associated invariant chain peptide) molecule from the peptide binding site. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). The beta chain is approximately 26-28 kDa and its gene contains 6 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and exon 5 encodes the cytoplasmic tail.
Molecular Mass	28.9 kDa
AA Sequence	MITFLPLLLGLSLGCTGAGGFVAHVSTCLLDDAGTPKDFTYCISFNKDLLTCWDPEE NKMACEFGVLNSLANVLSQHLNQKDTLMQRLRNGLQNCATHTQPFWGSLTNRTR PPSVQVAKTTPFNTREPVMLACYVWGFYPAEVTITWRKNGKLVMPHSSAHKTAQP

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NGDWTYQTLSHLALTPSYGDTYTCVVEHIGAPEPILRDWTPGLSPMQTLKVSVAVT
LGLGLIIFSLGVISWRRAGHSSYTPLPGSNYSEGWHISTRTRPLEQKLISEEDLAANDI
LDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name HLA-DMB major histocompatibility complex, class II, DM beta [Homo sapiens (human)]

Official Symbol HLA-DMB

Synonyms HLA-DMB; major histocompatibility complex, class II, DM beta; HLA class II histocompatibility antigen, DM beta chain; D6S221E; RING7; MHC class II HLA-DMB; MHC class II antigen DMB; really interesting new gene 7 protein; MHC class II antigen HLA-DM beta chain; class II histocompatibility antigen, M beta chain;

Gene ID 3109

mRNA Refseq NM_002118

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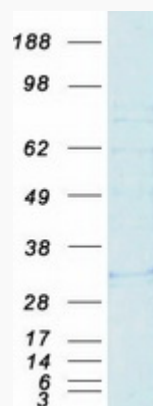
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Protein Refseq NP_002109

MIM 142856

UniProt ID P28068

SDS-PAGE



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